

Muons in Epotek-301-1

$\langle Z/A \rangle$	ρ [g/cm ³]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.53409	1.190	76.7	0.42698	3.0000	0.2000	2.0000	3.4112	0.00
T	p [MeV/c]	Ionization	Brems	Pair prod [MeV cm ² /g]	Photonucl	Total	CSDA range [g/cm ²]	
10.0 MeV	4.704×10^1	7.641				7.641	7.234×10^{-1}	
14.0 MeV	5.616×10^1	5.961				5.961	1.322×10^0	
20.0 MeV	6.802×10^1	4.656				4.656	2.474×10^0	
30.0 MeV	8.509×10^1	3.612				3.613	4.947×10^0	
40.0 MeV	1.003×10^2	3.085				3.085	7.962×10^0	
80.0 MeV	1.527×10^2	2.316				2.317	2.340×10^1	
100. MeV	1.764×10^2	2.178				2.178	3.233×10^1	
140. MeV	2.218×10^2	2.035				2.035	5.142×10^1	
200. MeV	2.868×10^2	1.954				1.954	8.162×10^1	
300. MeV	3.917×10^2	1.925			0.000	1.926	1.333×10^2	
308. MeV	4.000×10^2	1.925			0.000	1.926	<i>Minimum ionization</i>	
400. MeV	4.945×10^2	1.933			0.000	1.934	1.852×10^2	
800. MeV	8.995×10^2	2.008	0.000		0.000	2.008	3.882×10^2	
1.00 GeV	1.101×10^3	2.040	0.000		0.000	2.041	4.869×10^2	
1.40 GeV	1.502×10^3	2.093	0.000		0.001	2.094	6.803×10^2	
2.00 GeV	2.103×10^3	2.150	0.001	0.000	0.001	2.152	9.627×10^2	
3.00 GeV	3.104×10^3	2.214	0.001	0.001	0.001	2.217	1.420×10^3	
4.00 GeV	4.104×10^3	2.259	0.001	0.001	0.002	2.263	1.866×10^3	
8.00 GeV	8.105×10^3	2.360	0.003	0.003	0.004	2.370	3.589×10^3	
10.0 GeV	1.011×10^4	2.391	0.004	0.004	0.005	2.404	4.426×10^3	
14.0 GeV	1.411×10^4	2.436	0.006	0.007	0.007	2.456	6.071×10^3	
20.0 GeV	2.011×10^4	2.483	0.010	0.011	0.009	2.514	8.485×10^3	
30.0 GeV	3.011×10^4	2.534	0.016	0.020	0.014	2.584	1.241×10^4	
40.0 GeV	4.011×10^4	2.569	0.023	0.029	0.018	2.639	1.623×10^4	
80.0 GeV	8.011×10^4	2.650	0.052	0.070	0.034	2.807	3.091×10^4	
100. GeV	1.001×10^5	2.675	0.068	0.092	0.043	2.878	3.794×10^4	
140. GeV	1.401×10^5	2.712	0.100	0.139	0.059	3.011	5.153×10^4	
200. GeV	2.001×10^5	2.752	0.151	0.213	0.084	3.199	7.085×10^4	
300. GeV	3.001×10^5	2.796	0.238	0.338	0.126	3.498	1.007×10^5	
400. GeV	4.001×10^5	2.827	0.328	0.470	0.168	3.793	1.282×10^5	
800. GeV	8.001×10^5	2.904	0.706	1.016	0.339	4.964	2.201×10^5	
1.00 TeV	1.000×10^6	2.929	0.901	1.298	0.426	5.554	2.581×10^5	
1.11 TeV	1.112×10^6	2.941	1.010	1.455	0.475	5.881	<i>Muon critical energy</i>	
1.40 TeV	1.400×10^6	2.967	1.294	1.861	0.604	6.725	3.235×10^5	
2.00 TeV	2.000×10^6	3.007	1.898	2.723	0.874	8.503	4.027×10^5	
3.00 TeV	3.000×10^6	3.054	2.912	4.158	1.340	11.465	5.036×10^5	
4.00 TeV	4.000×10^6	3.088	3.943	5.615	1.814	14.459	5.811×10^5	
8.00 TeV	8.000×10^6	3.170	8.121	11.481	3.787	26.559	7.822×10^5	
10.0 TeV	1.000×10^7	3.198	10.234	14.437	4.803	32.672	8.500×10^5	
14.0 TeV	1.400×10^7	3.239	14.451	20.325	6.897	44.913	9.540×10^5	
20.0 TeV	2.000×10^7	3.284	20.833	29.207	10.116	63.439	1.066×10^6	
30.0 TeV	3.000×10^7	3.336	31.458	43.984	15.704	94.482	1.194×10^6	
40.0 TeV	4.000×10^7	3.373	42.142	58.810	21.440	125.765	1.286×10^6	
80.0 TeV	8.000×10^7	3.465	84.973	118.165	45.519	252.123	1.506×10^6	
100. TeV	1.000×10^8	3.496	106.443	147.879	58.003	315.820	1.577×10^6	